7.77

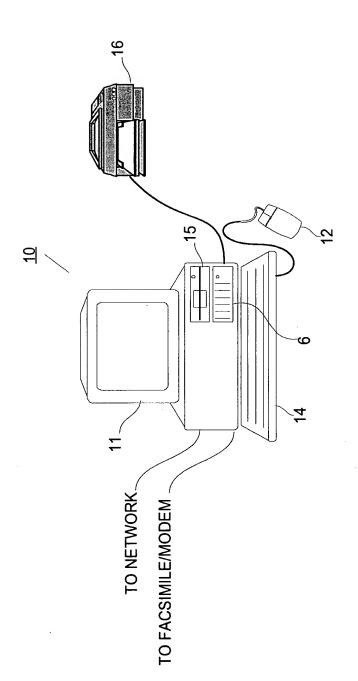


Fig. 1

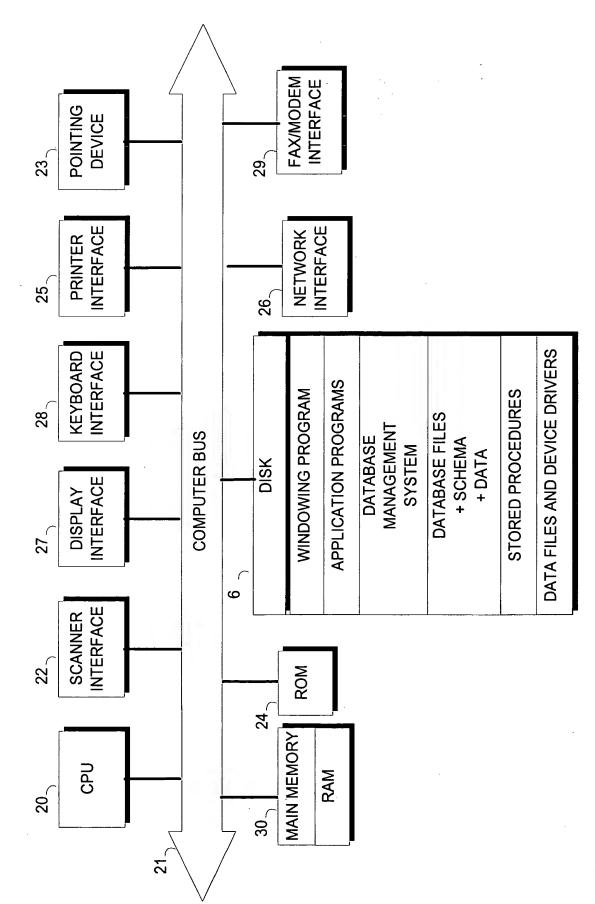


Fig. 2

9	2	330 332 332 332								340			
	303	Manufacturers Bit Vector Index	-1// 50	Bit Vector	11000	00101	00010	Categories Bit Vector Index	Bit Vector	10010	01100	00001	
		Manufacture	Manufacturer	Q	_	2	က	Categories	Category ID	, -	2	3	
								~ . [Č	320	321	770 /
		310		311	312	515	2 4	302	able	Category	Printer	Computer	Monitor
	Category	·	_	2	2		က		Categories Table				
Products Table	Manufacturer			_	2	3	2	,		Cateogory	320	321 2	270
			rinter	mputer	omputer	Best Printer	Apex Monitor	301	Manufacturers Table	er	ACME	Apex	1000
	Description	-	ACME Printer	ACME Computer	Apex Computer	Best	Apex		turers	ğ			

F1g. 3

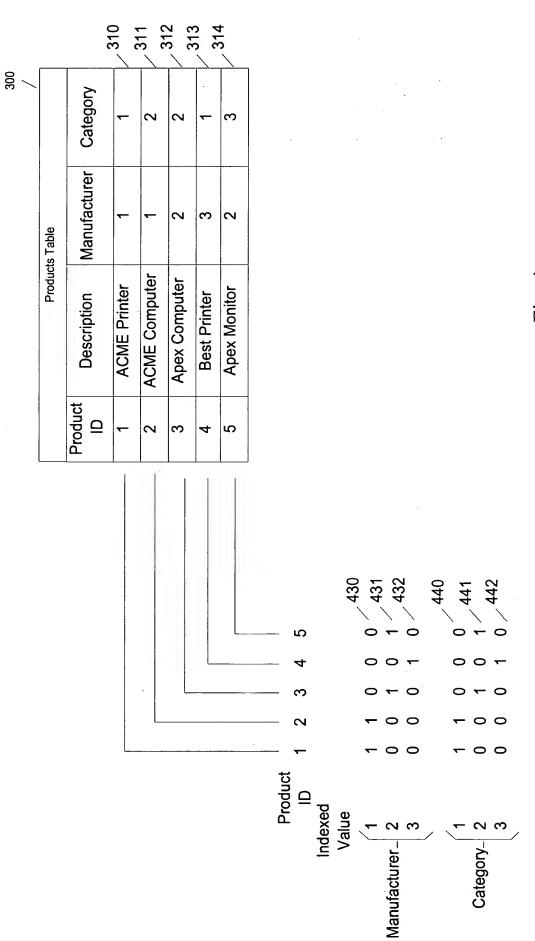
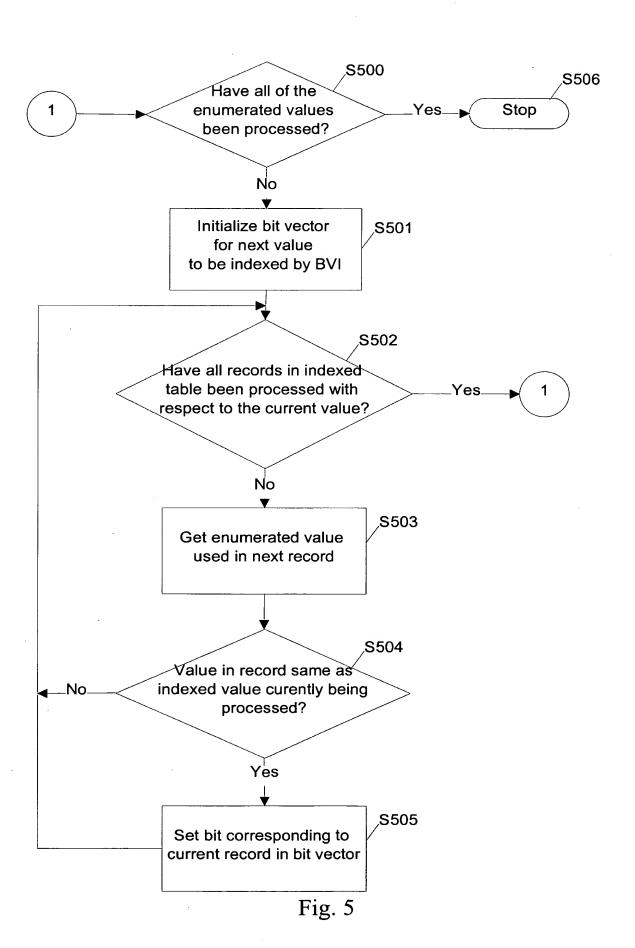


Fig. 4



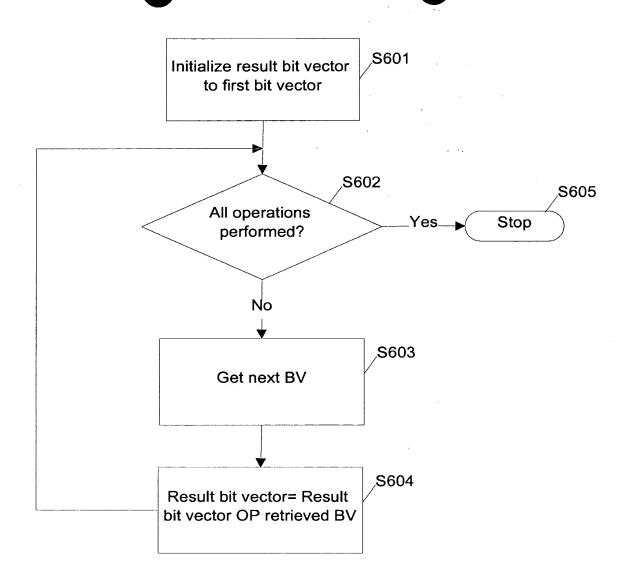


Fig. 6

		310	311	512	5.5	4 2		77	
	Category	-	2	2	-	3			
Table	Manufacturer	-	-	2	3	2			
Products Table	Description	ACME Printer	ACME Computer	Apex Computer	Best Printer	Apex Monitor			
	Product ID	-	2	က	4	2			
								0 0 0 0	OR 1 0 1 701
				_			— 8	~	0
							- .	~	0
							Product ID	ACME	Apex

Fig. 7A

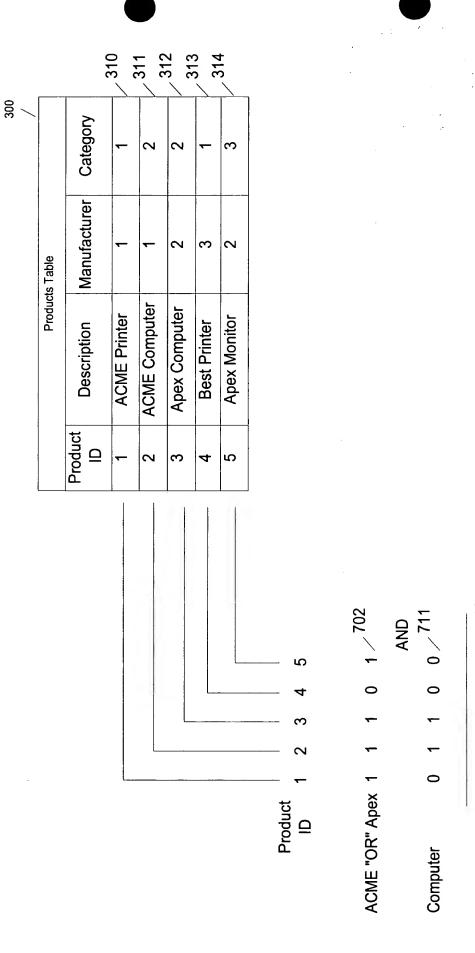
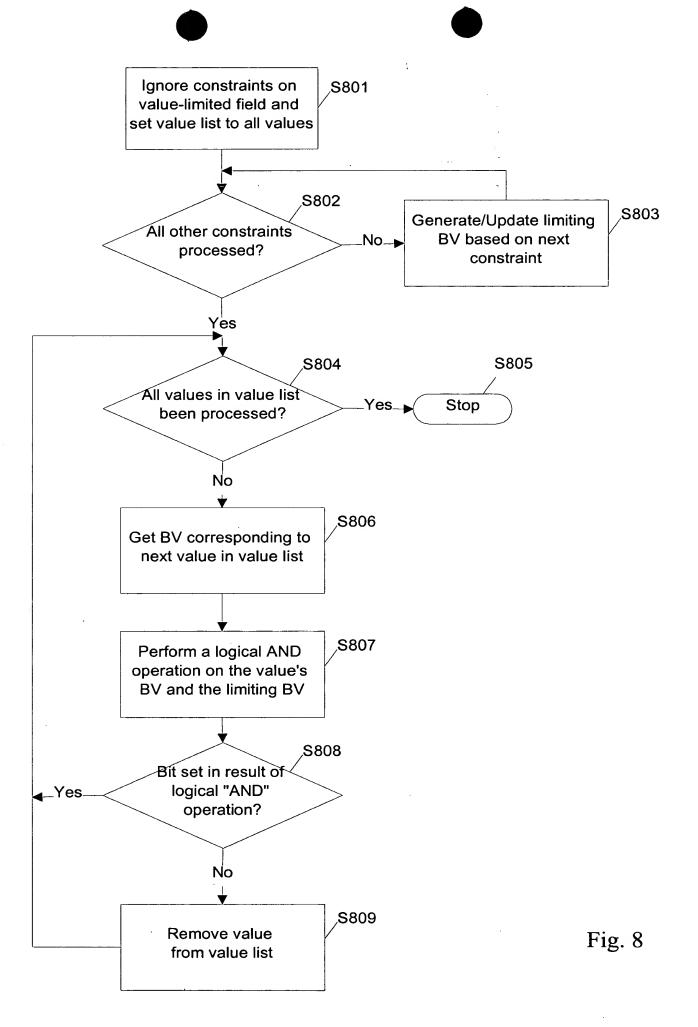


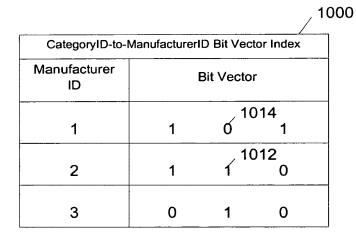
Fig. 7B

0



901 Resulting <u>Value List</u>	932 ACME 0 Apex AND 0 941	953		901 Resulting Value List	1 942 Printers AND 0 930 0 956
Best	0 0 0 1 0 1 0	0 0 0		Monitor	0 0 0 0 0 0 0 0
Apex	0 0 1 0 1 AND 0 1 AND 0 1 1 0 0 941	0 0 1 0 0 952	Fig. 9A	Computer	0 1 1 0 0 941 1 1 0 0 0 930 0 1 0 0 0 955
ACME	1 1 0 0 0 AND AND 941	0 1 0 0 0 0		Printer	1 0 0 1 0 940 1 1 0 0 0 930 1 0 0 0 0 954
Initial 900 <u>Value List</u>	ACME Apex Best Computer BV			Initial 900 Value List	Printers Computers Monitors ACME BV

Fig. 9B



			/	, 100 ⁻
ManufacturerID-	to-Category	ID Bit Vec	tor Index	
Category ID		Bit Vecto		
1	1	1	0	
		015 / 10)13	
2	0	1	1	
3	1	0	0	

Fig. 10